



Terrorist Identification Linkage Analysis Database

26 June 2002



Agenda

- Introduction to Northrop Grumman
- History and background of TILADS
- Capabilities
- Benefits



Company Overview

Kent Kresa
Chairman and CEO



Ronald Sugar
President and COO



Scott J. Seymour



*Integrated
Systems
Dallas, TX*

Bob Iorizzo



*Electronic
Systems
Baltimore, MD*

Herb Anderson



*Information
Technology
Herndon, VA*

Phil Dur



*Ship
Systems
Pascagoula, MS*

Tom Schievel-bein



*Newport
News
Norfolk, VA*

Frank Brandenberg

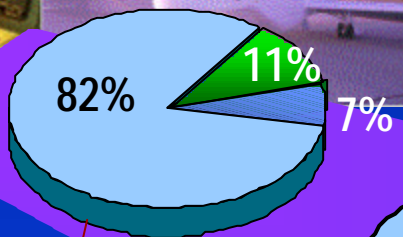
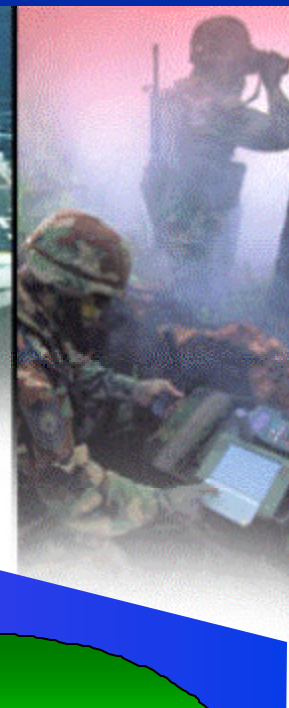
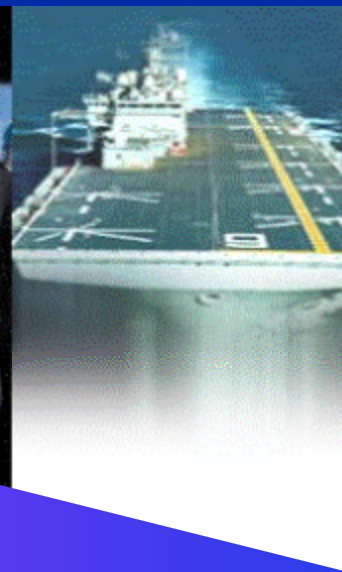
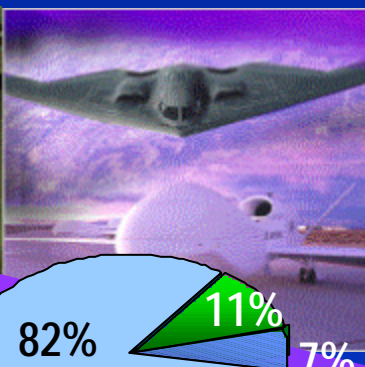


*Component
Technologies
Iselin, NJ*

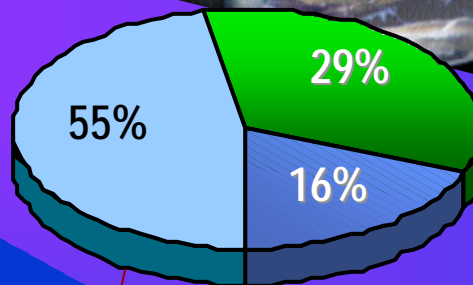
- ◆ ~\$18B
- ◆ 100,000 Employees
- ◆ 44 States
- ◆ 25 International Offices



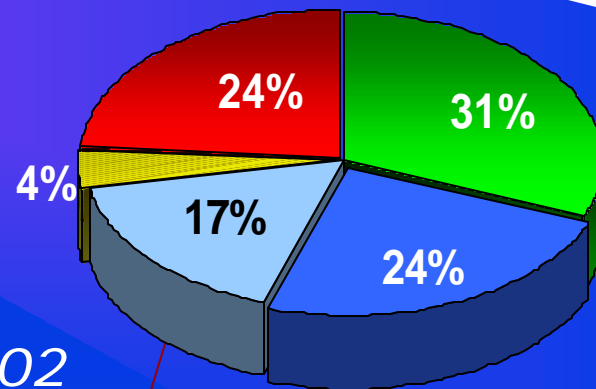
Northrop Grumman – Business Profile








1993
\$5.4B



1999
\$9B



2002
\$~18B Projected

-  Information Technology
-  Air Integrated Systems
-  Defense Electronics
-  Ship Systems
-  Commercial Electronics



NORTHROP GRUMMAN
Information Technology



Linkage Analysis Database System (LADS) Heritage



LADS technology was originally developed by Northrop Grumman IT as a tool to help government agencies fight the drug war

Converted to fight welfare fraud and other conspiracies



Linkage Analysis Spectrum

Increased Savings of Money,
Property and Lives

Simple

- Single individual
- Works by himself, no funding from others

Compound

- Several individuals
- Multiple identities
- Multiple motives

Conspiracy

- Cell Networks
- Role players
- Mail drops
- Forged, stolen IDs

Increasing Benefit of TILADS

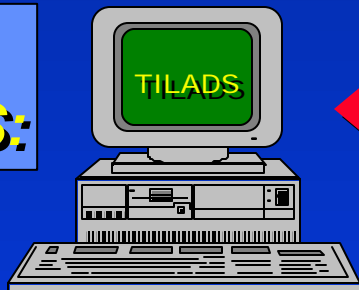


Data Mining with TILADS

We need new methods to fight terrorism—NOW!

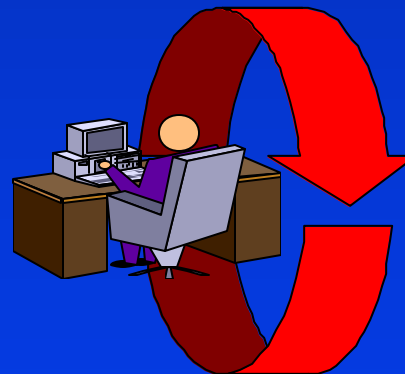
- **Scattered sites and investigators take weeks/months**
 - **Complex and inefficient 'legwork cycle'**

***With
TILADS:***



**Tips, Investigator-defined
terrorist profiles**

**TILADS generates tips,
routes all tips to
investigator's workstation
- No paperwork**



**Tips confirmed in
hours not weeks,
with high "hit" rate**



**"Tight-Loop" Investigation
with TILADS**

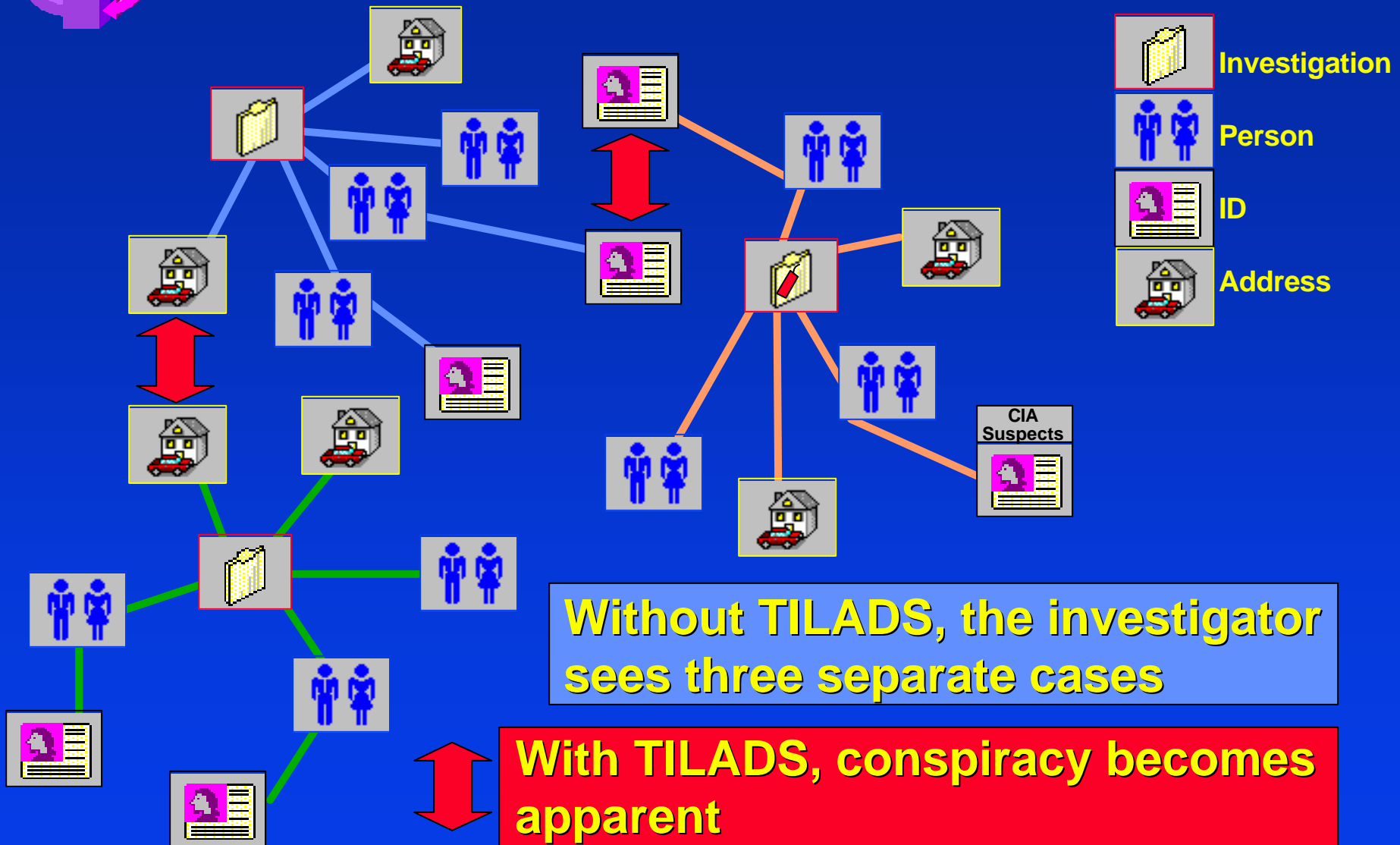


Capabilities

- **Flag information anomalies**
 - Address, zip, SSN could be fraudulent
 - Deviations from nominal patterns
- **Identify suspicious links between people**
 - Organizations, assets, bank accounts, cell phones
- **Link/Monitor disparate databases**
 - DMV, State Department, FBI, State and Local Law
 - Visas, known suspects, training records, credit cards
- **Automatically generate tips**
- **Import data from multiple legacy systems**
- **Assist investigators**
 - Look at data connections - not just data
 - Quickly “drill down” through linked data
 - Provide similarity (“sounds like”) & “fuzzy logic” searches
- **Provide interoperability/ensure data flow between agencies**



Linkage Formation



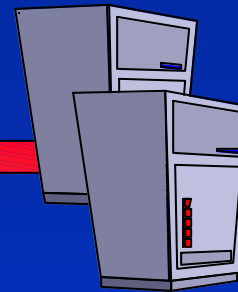


TILADS in Action

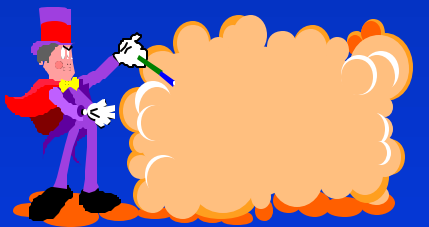
Current Legacy Systems

Data Warehouse

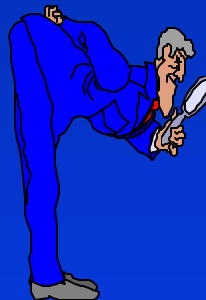
Periodic transaction update



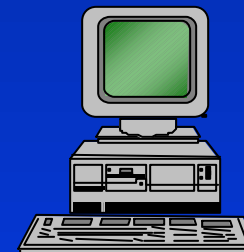
TILADS System



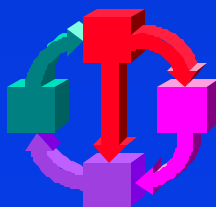
Data processing



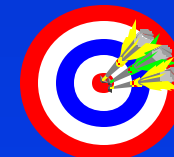
Check against database



Detect conspiracy and threats early



Automatic link placement



Identify additional conspiracy in existing intell data



TILADS Will Save Lives and Dollars



Finds conspiracy/collusion



Data linkages increase over time



Increases analyst effectiveness